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## ABSTRACT OF THE DISCLOSURE

Methods and equipment for establishing a voice and data telecommunications system with the benefits hardwiring, free of a requirement for extending telephone copper wire service to geographical areas, or into building complexes, where none exits. An electrical capacitive interconnection is established which enables existing analog-operated carrier mediums to provide the hardwired telephone service. benefits of messages in analog are converted to digital for telephone In a specific embodiment, a capacitive communication. interconnection compatible utilization enables electrical power lines for carrying such digital signal telecommunication, which is then converted to analog at a receiving location. Computer-operated control enables voice/data communication between multiple users in which communications can be sent and received simultaneously, in both directions, over the same line.